SEED MIXES (FOR RIPARIAN ZONES AND TRANSITION ARES)

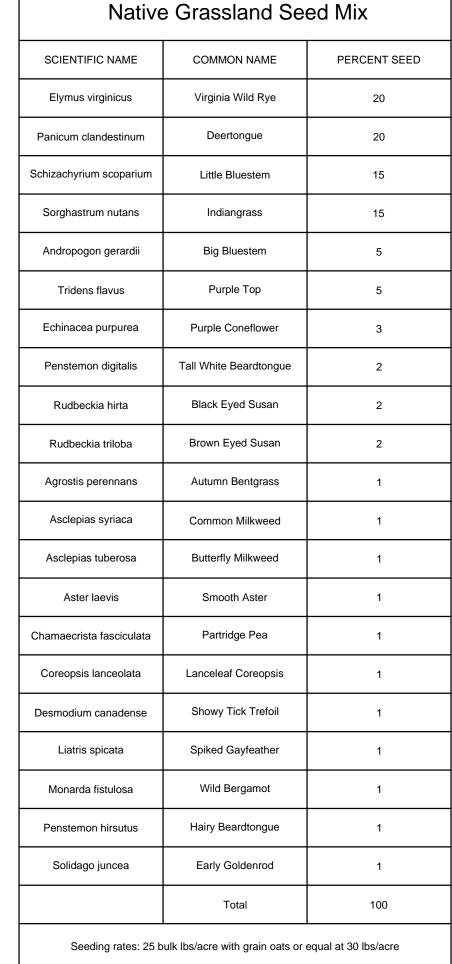
Agricultural Upland Seed Mix		
SCIENTIFIC NAME	COMMON NAME	PERCENT SEED
Panicum virgatum	switchgrass	33
Festuca rubra	creeping red fescue	25
Lolium multiflorum	annual rye	18
Phleum pratense	timothy	16
Trifolium pratense	red clover	5
Agrostis alba	red top	3
	Total	100

* Seed mix subject to change based on landowner comments

Agricultural Upland Steep Slope Seed Mix (>33%)				
SCIENTIFIC NAME	COMMON NAME	PERCENT SEED		
Panicum virgatum	switchgrass	33		
Festuca rubra	creeping red fescue	25		
Lolium multiflorum	annual rye	18		
Phleum pratense	timothy	16		
Trifolium pratense	red clover	5		
Agrostis alba	red top	3		
Seeding rates: 35 bulk lbs/acre with grain oats or equal at 40 lbs/acre				
* Seed mix subject to change based on landowner comments				

Upland Forest Zone		
SCIENTIFIC NAME	COMMON NAME	PERCENT SEED
Elymus virginicus	Virginia Wild Rye	40
Schizachyrium scoparium	Little Bluestem	15
Echinacea purpurea	Purple Coneflower	8
Chamaecrista fasciculata	Partridge Pea	7
Penstemon digitalis	Tall White Beardtongue	5
Asclepias syriaca	Common Milkweed	4
Coreopsis lanceolata	Lanceleaf Coreopsis	4
Aster laevis	Smooth Aster	3
Liatris spicata	Spiked Gayfeather	3
Rudbeckia hirta	Black Eyed Susan	3
Monarda fistulosa	Wild Bergamot	2
Rudbeckia triloba	Brown Eyed Susan	2
Solidago juncea	Early Goldenrod	2
Asclepias tuberosa	Butterfly Milkweed	1
Penstemon hirsutus	Hairy Beardtongue	1
	Total	100
Seeding rates: 25 b	oulk lbs/acre with grain oats or	equal at 30 lbs/acre

SCIENTIFIC NAME	COMMON NAME	PERCENT SEED
Schizachyrium scoparium	Little Bluestem	20
Sorghastrum nutans	Indiangrass	15
Elymus virginicus	Virginia Wild Rye	10
Echinacea purpurea	Purple Coneflower	8
Chamaecrista fasciculata	Partridge Pea	7
Andropogon gerardii	Big Bluestem	5
Penstemon digitalis	Tall White Beardtongue	5
Tridens flavus	Purple Top	5
Asclepias syriaca	Common Milkweed	4
Coreopsis lanceolata	Lanceleaf Coreopsis	4
Aster laevis	Smooth Aster	3
Liatris spicata	Spiked Gayfeather	3
Rudbeckia hirta	Black Eyed Susan	3
Monarda fistulosa	Wild Bergamot	2
Rudbeckia triloba	Brown Eyed Susan	2
Solidago juncea	Early Goldenrod	2
Asclepias tuberosa	Butterfly Milkweed	1
Penstemon hirsutus	Hairy Beardtongue	1
	Total	100



SCIENTIFIC NAME	COMMON NAME	PERCENT SEE
Elymus virginicus	Virginia Wild Rye	20
Panicum clandestinum	Deertongue	15
Sorghastrum nutans	Indiangrass	15
Andropogon gerardii	Big Bluestem	8
Carex vulpinoidea	Fox Sedge	5
Verbena hastata	Blue Vervain	5
Zizia aurea	Golden Alexanders	5
Carex squarrosa	Squarrose Sedge	4
Asclepias incarnata	Swamp Milkweed	3
Desmodium canadense	Showy Tick Trefoil	3
Eupatorium fistulosum	Joe Pye Weed	3
Eupatorium perfoliatum	Boneset	3
Euthamia graminifolia	Grass Leaf Goldenrod	3
Vernonia noveboracensis	New York Ironweed	3
Agrostis perennans	Autumn Bentgrass	2
Monarda fistulosa	Wild Bergamot	2
Lobelia siphilitica	Blue Lobelia	1
	Total	100

SCIENTIFIC NAME	COMMON NAME	PERCENT SEED
Elymus virginicus	Virginia Wild Rye	25
Festuca rubra	creeping red fescue	35
Lolium multiflorum	annual rye	20
Trifolium repens	whiteclover	20
	Total	100
Seeding rates: 25 b	oulk lbs/acre with grain oats or	equal at 30 lbs/acre

Maintained Lawn RZ/TA Steep Slope Seed Mix (>33%)				
SCIENTIFIC NAME	COMMON NAME	PERCENT SEED		
Elymus virginicus	Virginia Wild Rye	25		
Festuca rubra	creeping red fescue	35		
Lolium multiflorum	annual rye	20		
Trifolium repens	whiteclover	20		
	Total	100		
Seeding rates: 35 bulk lbs/acre with grain oats or equal at 40 lbs/acre				
* Seed mix subject to change based on landowner comments				

WETLAND RESTORATION

PEM WETLAND - TO BE RESTORED PSS WETLAND - TO BE RESTORED PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW) MODAG WETLAND - TO BE RESTORED

(SEE NOTES FOR WETLAND RESTORATION BELOW)

NOTES FOR WETLAND RESTORATION:

PEM WETLANDS IMPACTED WILL BE RESTORED AS PEM WETLANDS* PSS WETLANDS WITHIN THE LIMITS OF DISTURBANCE AND OUTSIDE THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PSS WETLANDS. PSS

WETLANDS WITHIN THE OPERATIONAL CORRIDOR WILL BE RESTORED AS

PEM WETLANDS. PFO WETLANDS WITHIN THE LIMITS OF DISTURBANCE AND OUTSIDE THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PFO WETLANDS. PFO WETLANDS WITHIN THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PEM WETLANDS.

MODAG WETLANDS IMPACTED WILL BE RESTORED AS MODAG WETLANDS. ALL PEM WETLANDS TO BE RESTORED EXCEPT FOR WETLAND 021617_BR_1001_PEM LOCATED AT MP 113.9, WHICH IS PROPOSED TO BE

FILLED FOR THE DEVELOPMENT OF THE TRANSCO RECEIVER SITE.

WATERBODY RESTORATION

WATERBODY - TO BE RESTORED

RIPARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES

AGRICULTURE

RIPARIAN ZONE

TRANSITION AREA

RIPARIAN ZONE/ TRANSITION AREA

UPLAND FOREST

RIPARIAN ZONE

RIPARIAN ZONE/ TRANSITION AREA TRANSITION AREA

TRANSITION AREA

NATIVE GRASSLAND

RIPARIAN ZONE RIPARIAN ZONE/ TRANSITION AREA

MAINTAINED LAWN

RIPARIAN ZONE

RIPARIAN ZONE/ TRANSITION AREA

TRANSITION AREA

PROPOSED

PROPOSED PIPELINE LIMITS OF DISTURBANCE

PROPOSED PERMANENT EASEMENT OPERATIONAL CORRIDOR

PROPOSED TREE LINE

EXISTING

PROPERTY LINE (LB-HU-A001.000) PARCEL ID WITH BLOCK AND LOT NUMBER LOT - 10.00 EXISTING CULVERT CPP CORRUGATED PLASTIC PIPE CORRUGATED METAL PIPE

HDPE HIGH DENSITY POLYETHYLENE PIPE PVC POLYVINYL CHLORIDE PIPE RCP REINFORCED CONCRETE PIPE UNK UNKNOWN EXISTING FOREIGN UTILITY EASEMENT

LINETYPE LEGENDS

EXISTING — — ·1260'· — — EXISTING MAJOR CONTOURS — — — — — EXISTING MINOR CONTOURS EXISTING PIPELINE OH EXISTING OVERHEAD LINE EXISTING FENCE __ x___ x___ x___ x__ WETLAND (SURVEYED) WETLAND (PUBLIC)

WATERBODY (SURVEYED) WATERBODY (PUBLIC) TRANSITION AREA RIPARIAN BUFFER (OUTER LIMITS ONLY) STREAM CENTERLINE (SURVEYED) STREAM CENTERLINE (PUBLIC)

LIMITS OF WETLAND DELINEATION EXISTING TREE LINE EXISTING TREE WETLAND FLAG NO— WETLAND FLAG SAMPLE STATION SAMPLE STATION SOW_FLAG_NO STATE OPEN WATER FLAG PHOTO LOCATION (SEE REPORT)

I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT EXISTING CONDITIONS SHOWN WERE FIELD LOCATED AND PREPARED UNDER MY DIRECT SUPERVISION.

THOMAS D. STRONG PROFESSIONAL LAND SURVEYOR N.J. LIC. NO. 24GS03676100

SIGNATURE

08/01/2019

I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE PROPOSED ENVIRONMENTAL DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND WITH THE DETAILED ENGINEERING DRAWINGS.

MICHAEL J. DENICHILO PROFESSIONAL ENGINEER

N.J. LIC. NO. 24GE05078700

SIGNATURE

08/01/2019

REVISION

TOWNSHIP/ COUNTY LINE SOURCE: AVAILABLE AT WWW.NJ.GOV

PREPARED FOR PennEast

PREPARED BY

MACDONALD 111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830 CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT RESTORATION PERMIT PLANS LEGEND AND SEED MIX SHEET 1 OF 2 PROPOSED 36" PENNEAST PIPELINE PROPOSED 12" GILBERT LATERAL PROPOSED 36" LAMBERTVILLE LATERAL

> DRAWING NO. PE-RES-C-005



REVISIONS DATE DRAWN CK APPR REVISIONS 07/2019 RJP KEK ISSUED FOR NJDEP PERMIT